

WHAT IS CLAIMED IS:

1. A recording clock signal generating apparatus located in an information recording device for recording information in a recording medium in which a wobbled information recording track and pre-pit formed thereon, said apparatus comprising:
 - 5 a wobble signal detecting section for detecting a wobble signal;
 - a pre-pit signal detecting section for detecting a pre-pit signal;
 - a phase comparing section for comparing a phase of said wobble signal to that of said pre-pit signal and outputting the phase difference;
 - 10 a phase-shifting section for shifting a phase of said wobbled signal based on said phase difference only when said phase difference is within a predetermined range; and
 - a clock signal generating section for generating a recording clock signal based on said phase-shifted wobble signal.
 2. The recording clock signal generating apparatus according to claim 1 further comprising:
 - 15 a control section for controlling said phase-shifting section when said phase difference is within a threshold width value set for the phase differences in the past.
 3. The recording clock signal generating apparatus according to claim 2, wherein said control section comprises a history data storing section for storing therein history data for said phase differences and a phase comparing section for comparing a given phase difference to the history data for the phase differences stored in said history data storing section.
 - 20
 4. The recording clock signal generating apparatus according to claim 3, wherein said history data storing section outputs an average value for said phase differences in the past stored therein.
 - 25
 5. The recording clock signal generating section according to claim 3, wherein said phase difference comparing section sets a control signal outputted to said phase-shifting section at a high level only when the threshold width value relative to the history data of said phase differences in the past is set and said phase difference is within the threshold
-

width value.

6. The recording clock signal generating apparatus according to claim 1, further comprising a control unit for controlling said phase-shifting section only when said phase difference is within a fixed width value set relative to the phase difference.

5 7. A recording clock signal generating method for recording information in a recording medium in which a wobbled information recording track and a pre-pit formed thereon, said method comprising the steps of:

detecting a wobble signal;

detecting a pre-pit signal;

10 comparing a phase of said wobble signal to that of said pre-pit signal and outputting the phase difference;

shifting a phase of said wobble signal based on said phase difference only when said phase difference is within a predetermined range; and

15 a clock signal generating step of generating a recording clock signal based on said phase-shifted wobble signal.